



St. JOSEPH'S DEGREE COLLEGE
Sunkesula Road, Kurnool – 518 004 A.P.
(Affiliated to Rayalaseema University, Kurnool)

ADD ON COURSE ON
“C++ PROGRAMMING”

Academic Year – 2024-2025

COURSE CO-ORDINATORS:

1. Mr. K.Amarnath
2. Mr. G.Penchalaiah Babu
3. Mrs. B. Manju Bhargavi
4. Mrs. N. Rajini Kiranmai

CIRCULAR

Date: 29-07-2024.

Dear students, this is to inform you that the Dept. of Computer Science is going to conduct add-on course on "Programming with C++ " from 02 Aug 2024. This course is very helpful for the students to develop their coding skills. All the II-year B.Com & BBA students are requested to join.

Dept. of Computer Science,
St. Joseph's Degree College.

COURSE OUTLINE

Instructor: Mr. K.Amarnath & Mr. G.Penchalaiah Babu

Class Section: II B.Com III Semester Students

Class Time: Monday To Saturday 3.00 PM to 5.00 PM.

Duration: 15 Days.

E-Mail: sjdc.cs@gmail.com.

Start Day: 02-08-2024

End Day: 04-09-2024

College website: www.sjcknl.edu.in

COURSE DESCRIPTION:

C++ is an object-oriented programming (OOP) language used for creating large-scale applications. It is a superset of the C language. It is can be found in today's operating systems, Graphical User Interfaces and embedded systems.

C++ allows software developers to define their own data types and manipulate them using functions and methods. It also allows low-level programming and provides access to memory, enabling fast and efficient execution of code.

It also supports generic programming using templates, which let code be written in a generic form and reused for different data types. This course is helpful for the students to upskill and advance their careers.

OBJECTIVES: This course provides an insight to acquire fundamental understanding of the OOPs concepts, classes, objects, functions. It has been designed with a uniform structured series of modules and makes programming easier, more efficient.

- The Basic Programming and OOPs concepts.
- Creating C++ programs.
- Tokens, Expressions and Control Structures in C++
- Arranging same data systematically with arrays.
- Classes and Objects in C++
- Constructors and Destructors in C++
- Inheritance Concepts in C++

SYLLABUS

Module 1: Introduction to Object Oriented programming language - Duration: 2 hrs

- Objective: To understand the importance of Object-Oriented language in real world.

Module 2: POOP & OOPL– Duration: 12 hrs

This module starts to Introduction to POOP & OOPL

- Introduction to programming languages, translators.
- Difference between procedural and object-oriented programming, OOPs concepts.
- Structure of C++ with example program. Write, compile and execution of C++ programs.

Module 3: Data types and operators. Duration: 8 hrs

This module starts with Data types and operators

- Practical lab work. Class, object creation and accessing variables, methods.
- Data types of C++.
- Operators of C++.
- Practical lab

Module 4: Control Statement & Function in C++ - Duration: 6 hrs

This module starts with Branching Statement and looping Statement.

- Branching statements practical lab.
- Looping and jumping statements practical lab.
- Functions, categories of functions, scope of variables in C++.

Module 5: Function and Inheritance in C++ - Duration: 2 hrs

In this module, you will learn that inline function and inheritance.

- ♣ Default arguments, recursion – practical lab.
- ♣ Inline function, function overloading – practical lab.
- ♣ Access modifiers in C++, Inheritance – single, multilevel inheritance - practical lab.
- ♣ Multiple, Hierarchical, Hybrid inheritance – practical lab.
- ♣ Constructor and Destructor – practical lab.

| S.no | Date | Topics Covered |
|-------------|-------------|---|
| 1 | 02-08-2024 | Introduction to Programming Languages, Translators, Compiler, Interpreter, Difference b/n C & C++ |
| 2 | 03-08-2024 | Structure of C++ with examples, Object Oriented Programming(OOPs) Concepts |
| 3 | 05-08-2024 | C++ Operators with example programs |
| 4 | 06-08-2024 | Branching Statements, Switch statement |
| 5 | 07-08-2024 | Iterative and Jumping Statements |
| 6 | 08-08-2024 | Programs on Class and Objects |
| 7 | 09-08-2024 | Introduction to Function and its categories |
| 8 | 12-08-2024 | Scope of Variables and Default Arguments in C++ |
| 9 | 13-08-2024 | Inline function with example programs |
| 10 | 14-08-2024 | Function Overloading with example programs |
| 11 | 16-08-2024 | Inheritance and its types |
| 12 | 17-08-2024 | Programs on types of inheritance |
| 13 | 19-08-2024 | Constructor and its types with examples |
| 14 | 03-09-2024 | Destructor and its types with examples |
| 15 | 04-09-2024 | Overview |

OUTCOME:

- Able to differentiate structure-oriented programming and object-oriented programming.
- Able to understand and apply various object-oriented features.
- Able to write, compile and debug programs in C++ language.
- Able to know concepts in operator overloading, function overloading & polymorphism.
- Able to design programs involving constructors, destructors.
- Able to reuse of code using inheritance.

SCHEME OF VALUATION AND PATTERN OF QUESTION PAPER
CONDUCTED MULTIPLE CHOICE BASED QUESTIONS

ONLINE EXAMINATION

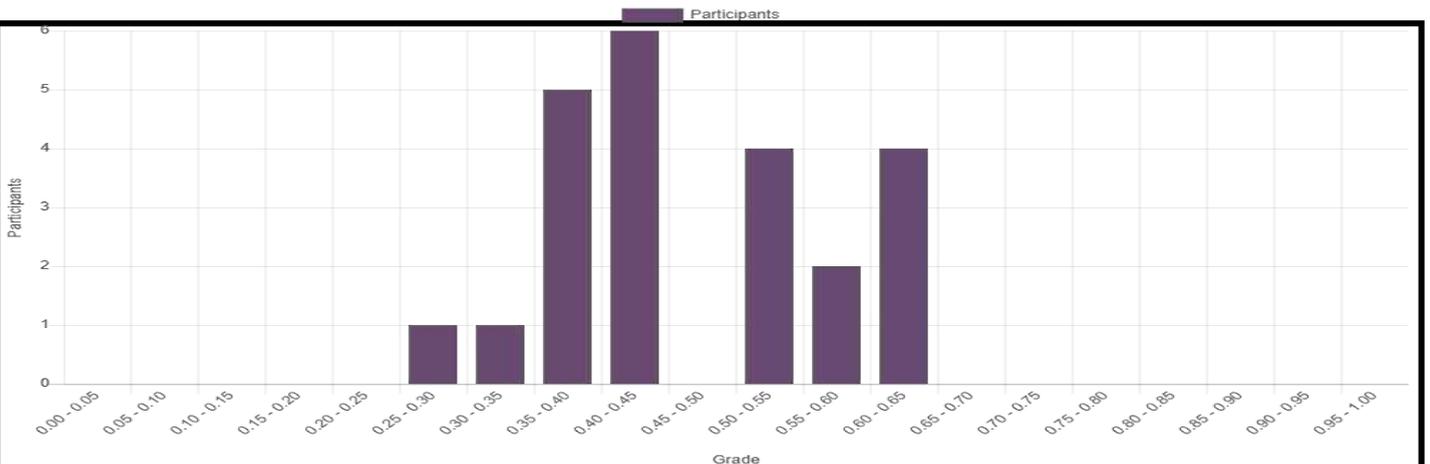
Time : 30 minutes

Max. Marks : 25

Min. Marks to Pass: 10

| S.No. | Type of the Questions | No.Of Questions | Marks Per Question | Total Marks |
|-------|-----------------------|-----------------|--------------------|-------------|
| 1 | Multiple Questions | 25 | 1 | 25 |

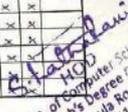
| Surname | First name | Email address | Grade/10 |
|------------------------|-------------|---|------------|
| Navaneetha | Eepuri | navaneethaeepuri020@gmail.com | 5.2 |
| Kavya | Kunigiri | k13989945@gmail.com | 5.2 |
| Sireesha | Kuruva | ksiri8919@gmail.com | 5.2 |
| Pallavi | Mondilla | pmondila@gmail.com | 4.4 |
| Jyothika | Rangesudhe | jyothijyothika81@gmail.com | 3.6 |
| Manju | Jaggarla | jshardha959@gmail.com | 4.4 |
| Praneetha | Kattela | praneetha859@gmail.com | 3.6 |
| Charan | Sai | saicharan97571@gmail.com | 6 |
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| Sowjanya | Bethi | bsowji28@gmail.com | 3.6 |
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| Shaik | Hazirunnisa | shaikhazirunnisa111@gmail.com | 2.8 |
| Lokanath | S | telugulokulokanathlokanath361@gmail.com | 4 |
| Kuruva | Anuradha | eranna3850@gmail.com | 5.6 |
| Chilukuru | Bhavana | chilukurubhavana2004@gmail.com | 3.2 |
| Shaik | Md Anas | anuanasmam@gmail.com | 6 |
| Kinnera | Ashwini | kinneraashwini@gmail.com | 3.6 |
| Overall average | | | 4.6 |



ATTENDANCE

St. Joseph's Degree College, Surveskula Road, Kurnool
Add on course on Programming in C++ for Commerce students(III-sem Bcom & BBA) 2024-25

| Class | Sno | Name | Phone no | Email id | August - 2024 | | | | | | | | | | | | | | Sep-24 | |
|-------|-----|---------------------|------------|--------------------|---------------|----|----|----|----|----|----|----|----|----|----|----|----|----|--------|----|
| | | | | | 02 | 03 | 05 | 06 | 07 | 08 | 09 | 10 | 12 | 13 | 14 | 16 | 17 | 19 | 23 | 24 |
| P.Com | 1 | Dudhala Prasanna | 9986000071 | Arudhadr@gmail.com | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| P.Com | 2 | Vadda Ravathi | 9986000071 | Arudhadr@gmail.com | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| P.Com | 3 | Tijula Parvathi | 9986000071 | Arudhadr@gmail.com | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| P.Com | 4 | Kattala Divyashree | 9986000071 | Arudhadr@gmail.com | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| P.Com | 5 | Metlase Pratheek | 9986000071 | Arudhadr@gmail.com | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| P.Com | 6 | Telugu Akhuni | 9986000071 | Arudhadr@gmail.com | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| P.Com | 7 | Balla Malini | 9986000071 | Arudhadr@gmail.com | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| P.Com | 8 | Billi Kavitha | 9986000071 | Arudhadr@gmail.com | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| P.Com | 9 | Jaggala Manju | 9986000071 | Arudhadr@gmail.com | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| P.Com | 10 | Peruri Navaneetha | 9986000071 | Arudhadr@gmail.com | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| P.Com | 11 | Kuruvu Suresha | 9986000071 | Arudhadr@gmail.com | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| P.Com | 12 | Kuruvu Suresha | 9986000071 | Arudhadr@gmail.com | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| P.Com | 13 | Mandilla Pallavi | 9986000071 | Arudhadr@gmail.com | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| P.Com | 14 | Mallappa Pragna | 9986000071 | Arudhadr@gmail.com | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| P.Com | 15 | Sudhakar | 9986000071 | Arudhadr@gmail.com | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| P.Com | 16 | Arjunacharya Akhila | 9986000071 | Arudhadr@gmail.com | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| P.Com | 17 | Bhalla Sanjana | 9986000071 | Arudhadr@gmail.com | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| P.Com | 18 | Kuruvu Anuradha | 9986000071 | Arudhadr@gmail.com | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| P.Com | 19 | N. Navya | 9986000071 | Arudhadr@gmail.com | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| P.Com | 20 | K. Rajitha | 9986000071 | Arudhadr@gmail.com | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| P.Com | 21 | Bampala Navya | 9986000071 | Arudhadr@gmail.com | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| P.Com | 22 | Shaili Suman | 9986000071 | Arudhadr@gmail.com | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| P.Com | 23 | Sudhakar | 9986000071 | Arudhadr@gmail.com | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| P.Com | 24 | T. Chandana | 9986000071 | Arudhadr@gmail.com | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
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| P.Com | 26 | S. Akshaya | 9986000071 | Arudhadr@gmail.com | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| P.Com | 27 | Telugu Akhuni | 9986000071 | Arudhadr@gmail.com | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| P.Com | 28 | G. Sathish Kumar | 9986000071 | Arudhadr@gmail.com | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| P.Com | 29 | A. Navaneetha | 9986000071 | Arudhadr@gmail.com | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| P.Com | 30 | D. Malika | 9986000071 | Arudhadr@gmail.com | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |


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GALLERY



FEEDBACK

Please indicate your satisfaction level for the following aspects of the course>

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